



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 132530

TO: Kevin Weddington
Location: REM/3A65/3C70
Art Unit: 1614
Thursday, September 16, 2004
Case Serial Number: 10/748495

From: Edward Hart
Location: Biotech-Chem Library
REM-1A55
Phone: 571-272-2512
edward.hart@uspto.gov

Search Notes

Examiner Weddington,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

REF ID: 3A65

Access DB# 132530

44

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: K. Weddington Examiner #: 68082 Date: 9-14-04
 Art Unit: 1614 Phone Number: 272-0587 Serial Number: 10/748,495
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

A method for treating a cardiac disorder with
 a seven-carbon fatty acid

The cardiac disorder is cardiac muscle weakness
 or
 cardiac myopathy

Kevin

Not much here to give you.
 If you would like to see the
 (75) ref. on Seven carbon fatty acids
 Please let me know

STAFF USE ONLY

Searcher: _____

NA Sequence (#) _____

STN _____

Edward

Searcher Phone #: _____

AA Sequence (#) _____

Dialog _____

Searcher Location: _____

Structure (#) _____

Questel/Orbit: _____

Date Searcher Picked Up: _____

Bibliographic _____

Dr Link _____

Date Completed: _____

Litigation _____

Lexis/Nexis _____

Searcher Prep & Review Time: _____

Fulltext _____

Sequence Systems _____

Clerical Prep Time: _____

Patent Family _____

WWW/Internet _____

Online Time: _____

Other _____

Other (specify) _____

WEDDINGTON 10/748495

=> file hcaplus
FILE 'HCAPLUS' ENTERED AT 12:06:59 ON 16 SEP 2004
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FILE COVERS 1907 - 16 Sep 2004 VOL 141 ISS 12
FILE LAST UPDATED: 15 Sep 2004 (20040915/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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(FILE 'HOME' ENTERED AT 11:40:04 ON 16 SEP 2004)

FILE 'HCAPLUS' ENTERED AT 11:40:22 ON 16 SEP 2004
SET COST OFF

E ROE CHARLES/AU, IN

L1 68 S E3,E10-E11
L2 75 S SEVEN (L) CARBON (L) FATTY (L) ACID
L3 1 S L1 AND L2
L4 1 S L2 AND CARDIO?
L5 308102 S FATTY (L) ACID
L6 2659 S L5 AND CARDIAC?
L7 636 S L6 AND (MUSCLE OR MYOPATHY)
L8 3 S L7 AND (MUSCLE (L) WEAKNESS)
L9 0 S L2 AND CARDIAC? (L) DISORDER
L10 0 S L2 AND MYOPATHY
E FATTY ACID
L11 308102 S FATTY (L) ACID
L12 106 S L11 AND CARDIAC? (L) DISORDER
L13 1 S SEVEN (2W) CARBON (2W) FATTY (2W) ACID
L14 1 S 7 (2W) CARBON (2W) FATTY (2W) ACID
L15 0 S 7 (1W) CARBON (2W) FATTY (2W) ACID
L16 11083 S CARDIAC? AND DISORDER?
L17 0 S L16 AND 7 (1W) CARBON (2W) FATTY (2W) ACID
L18 0 S L16 AND 7 (2W) CARBON (2W) FATTY (2W) ACID
L19 99 S L16 AND MYOPATHY?
L20 0 S L19 AND 7 (2W) CARBON (2W) FATTY (2W) ACID

FILE 'HCAPLUS' ENTERED AT 12:06:59 ON 16 SEP 2004

=> d ibib abs hitrn 13 tot

L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:553360 HCAPLUS
DOCUMENT NUMBER: 133:119397
TITLE: Nutritional supplement or pharmaceutical preparation

comprising triglycerides with **seven-carbon fatty acids**

INVENTOR(S): **Roe, Charles R.**
 PATENT ASSIGNEE(S): Baylor University Medical Center, USA
 SOURCE: PCT Int. Appl., 107 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000045649	A1	20000810	WO 2000-US3022	20000203
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2361070	AA	20000810	CA 2000-2361070	20000203
EP 1150579	A1	20011107	EP 2000-910086	20000203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002536304	T2	20021029	JP 2000-596781	20000203
NZ 513329	A	20031128	NZ 2000-513329	20000203
AU 775708	B2	20040812	AU 2000-32236	20000203
US 6740679	B1	20040525	US 2001-890559	20010801
US 2003125386	A1	20030703	US 2003-371385	20030221
US 2003162833	A1	20030828	US 2003-371685	20030221
US 2004152773	A1	20040805	US 2003-748432	20031230
US 2004152776	A1	20040805	US 2003-748495	20031230
PRIORITY APPLN. INFO.:			US 1999-119038P	P 19990205
			WO 2000-US3022	W 20000203
			US 2001-890559	A3 20010801
			US 2003-371385	A3 20030221
			US 2003-371685	A3 20030221

AB A **seven-carbon fatty acid**, preferably n-heptanoic acid, has been identified as an excellent energy source for patients suffering from inherited metabolic disorders or acquired metabolic derangements, especially defects in long-chain **fatty acid** metabolism. A **seven-carbon fatty acid** can also be provided in a nutritional supplement for patients who need an increase in the energy production derived from **fatty acid** metabolism.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d ibib abs hitrn 114 tot

L14 ANSWER 1 OF 1 HCPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1946:34072 HCPLUS
 DOCUMENT NUMBER: 40:34072
 ORIGINAL REFERENCE NO.: 40:6611h-i,6612a-b
 TITLE: Quantitative study of the products of fatty acid oxidation in liver suspensions
 AUTHOR(S): Lehninger, Albert L.

CORPORATE SOURCE:

Univ. of Wisconsin, Madison

SOURCE:

Journal of Biological Chemistry (1946), 164, 291-306

DOCUMENT TYPE:

CODEN: JBCHA3; ISSN: 0021-9258

LANGUAGE:

Journal

Unavailable

AB cf. C.A. 40, 4092.3. Washed rat liver enzyme suspension, in the presence of adenosine triphosphate, magnesium ions, and malonate, oxidizes octanoate completely to acetoacetate according to the equation $C_7H_{15}COOH + 3O_2 \rightarrow 2CH_3COCH_2COOH + 2H_2O$. There is no endogenous oxidative activity. In the presence of ATP, magnesium ions, and malonate, and in the absence of oxalacetate, the enzyme suspension oxidizes pyruvate quantitatively to acetoacetate according to the equation $2CH_3COCOOH + O_2 \rightarrow CH_3COCH_2COOH + 2CO_2 + H_2O$. In the presence of oxalacetate, however, the yield of acetoacetate is diminished and extra citrate accumulates, evidence of the occurrence of the "Krebs condensation." When fatty acids are oxidized by the enzyme suspension in the presence of fumarate and malonate, the yield of acetoacetate is diminished and extra citrate, α -ketoglutarate, and succinate accumulate in such amounts as to account quantitatively for the C of the fatty acid diverted from acetoacetate production. Acetoacetate does not form citrate in the presence of oxalacetate and ATP; this indicates that the formation of citrate from fatty acids involves some precursor of acetoacetate.

7 and 9-Carbon fatty acids are oxidized and form acetoacetate and citrate at approx. the same rates as octanoate.